

Notice of Allowability	Application No.	Applicant(s)	
	09/818,608	GLIGOR ET AL.	
	Examiner	Art Unit	

Minh Dieu Nguyen 2137

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to October 14, 2005.
2. The allowed claim(s) is/are 1-51, 61-64, 71-74, 81-86 and 89.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

E. Moise
EMMANUEL L. MOISE
SUPERVISORY PATENT EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Ellis on 12/30/2005.

2. The application has been amended as follows:

Claims 52-60, 65-70, 75-80, 87-88 and 90-91 are cancelled.

Allowable Subject Matter

3. This action is in response to the communication dated October 14, 2005 with the amendments to claims 1, 4-6, 36, 61, 63-64, 71, 73-74.
4. Claims 1-51, 61-64, 71-74, 81-86 and 89 are allowed.
5. The following is an examiner's statement of reasons for allowance:

The present invention is directed to an authentication method and schemes (eXtended Cipher Block Chaining (XCBC)) using a block cipher to protect data integrity during communication over insecure channel. Each independent claim (claims 1, 6, 36, 61, 63-64, 71 and 73-74) identifies the unique distinct features "creating a randomization function over the data blocks (i.e. creating a random vector of L bits in length and performing a randomization function over the plurality of plaintext blocks) to create input blocks of the same size as that of the data blocks (i.e. the random vector block to create a plurality of input blocks each of L bits in length).

The prior arts:

Kanda et al. (6,769,063), Zeidler (4,423,287, Jones (6,434,699) fail to anticipate or render the above limitations obvious.

Bellare et al. (5,757,913) discloses a method and apparatus for data authentication in a data communication environment describing a MAC-generation technique called XOR-MAC to get around the serial nature of the CBC-MAC, his teaching fails to anticipate or render the above limitations obvious.

Bernstein (How to stretch random functions: the security of protected counter sums) discloses a variant of the XOR-MAC, his teaching overcomes the limitation of the XOR-MAC arising from the use of the nonce, however fails to anticipate or render the above limitations obvious.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

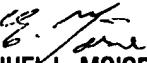
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Dieu Nguyen whose telephone number is 571-272-3873. The examiner can normally be reached on M-F 6:00-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on 571-272-3865. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

Minh Dieu Nguyen
Examiner
Art Unit 2137

mdn
12/30/05


EMMANUEL L. MOISE
SUPERVISORY PATENT EXAMINER